

SEQUENCE LISTING

<110> KISHIMOTO, Tadamitsu
NAGASAWA, Takashi
TACHIBANA, Kazunobu

<120> Inhibiting vascularization using antibodies to CXCR4 and SDF-1

<130> 46124-5042-US01

<140> US 10/785,230

<141> 2004-02-25

<150> US 09/646,785

<151> 2001-02-16

<150> PCT/JP99/01448

<151> 1999-03-23

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<211> 352

<212> PRT

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Glu	Glu	Asn	Ala	Asn	Phe	Asn	Lys	Ile	Phe	Leu	Pro	Thr	Ile	Tyr		
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Tyr	Arg	Leu	His	Leu	Ser	Val	Ala	Asp	Leu	Leu	Phe	Val	Ile	Thr		
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Leu	Pro	Phe	Trp	Ala	Val	Asp	Ala	Val	Ala	Asn	Trp	Tyr	Phe	Gly		
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Asp	Asp	Arg	Tyr	Ile	Cys	Asp	Arg	Phe	Tyr	Pro	Asn	Asp	Leu	Trp		
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Thr	Val	Ile	Leu	Ile	Leu	Ala	Phe	Phe	Ala	Cys	Trp	Leu	Pro	Tyr	
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Lys	Gln	Gly	Cys	Glu	Phe	Glu	Asn	Thr	Val	His	Lys	Trp	Ile	Ser	
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aag	caa	ggg	tgt	gag	ttt	gag	aac	act	gtg	cac	aag	tgg	att	tcc	855
atc	acc	gag	gcc	cta	gct	ttc	ttc	cac	tgt	tgt	ctg	aac	ccc	atc	900
ctc	tat	gct	ttc	ctt	gga	gcc	aaa	ttt	aaa	acc	tct	gcc	cag	cac	945
gca	ctc	acc	tct	gtg	agc	aga	ggg	tcc	agc	ctc	aag	atc	ctc	tcc	990
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      35      40      45
Ile Tyr Phe Ile Ile Phe Leu Thr Gly Ile Val Gly Asn Gly Leu
      50      55      60
Val Ile Leu Val Met Gly Tyr Gln Lys Lys Leu Arg Ser Met Thr
      65      70      75
Asp Lys Tyr Arg Leu His Leu Ser Val Ala Asp Leu Leu Phe Val
      80      85      90
Ile Thr Leu Pro Phe Trp Ala Val Asp Ala Met Ala Asp Trp Tyr
      95     100     105
Phe Gly Lys Phe Leu Cys Lys Ala Val His Ile Ile Tyr Thr Val
     110     115     120
Asn Leu Tyr Ser Ser Val Leu Ile Leu Ala Phe Ile Ser Leu Asp
     125     130     135
Arg Tyr Leu Ala Ile Val His Ala Thr Asn Ser Gln Arg Pro Arg
     140     145     150
Lys Leu Leu Ala Glu Lys Ala Val Tyr Val Gly Val Trp Ile Pro
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Ala Leu Leu Leu Thr Ile Pro Asp Phe Ile Phe Ala Asp Val Ser
     170     175     180
Gln Gly Asp Ile Ser Gln Gly Asp Asp Arg Tyr Ile Cys Asp Arg
     185     190     195
Leu Tyr Pro Asp Ser Leu Trp Met Val Val Phe Gln Phe Gln His
     200     205     210
Ile Met Val Gly Leu Ile Leu Pro Gly Ile Val Ile Leu Ser Cys
     215     220     225
Tyr Cys Ile Ile Ile Ser Lys Leu Ser His Ser Lys Gly His Gln
     230     235     240
Lys Arg Lys Ala Leu Lys Thr Thr Val Ile Leu Ile Leu Ala Phe
     245     250     255
Phe Ala Cys Trp Leu Pro Tyr Tyr Val Gly Ile Ser Ile Asp Ser
     260     265     270
Phe Ile Leu Leu Gly Val Ile Lys Gln Gly Cys Asp Phe Glu Ser
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Ile Val His Lys Trp Ile Ser Ile Thr Glu Ala Leu Ala Phe Phe
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Ser Ser Leu Lys	Ile Leu Ser Lys Gly	Lys Arg Gly Gly His Ser			
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<220>
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 <222> (1)...(1080)

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gtg atc ctg gtc atg ggt tac cag aag aag cta agg agc atg acg 225
gac aag tac cgg ctg cac ctg tca gtg gct gac ctg ctg ttt gtc 270
atc aca ctg ccc ttc tgg gca gtt gat gcc atg gct gac tgg tac 315
ttt ggg aaa ttt ttg tgt aag gct gtc cat atc atc tac act gtc 360
aac ctg tac agc agc gtt ctg atc ctg gcc ttc atc agc ctg gac 405
cgg tac ctg gcc att gtc cac gcc acc aac agt caa agg cca agg 450
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gcc ctg ctg ctg act ata cct gac ttc atc ttt gcc gac gtc agc 540
cag ggg gac atc agt cag ggg gat gac agg tac atc tgt gac cgc 585
ctt tac ccc gat agc ctg tgg atg gtg gtg ttt caa ttc cag cat 630
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1758

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<212> PRT
<213> Artificial Sequence

<220>
<223> Ligand peptide

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 35 40 45
His Leu Lys Ile Leu Asn Thr Pro Asn Cys Ala Leu Gln Ile Val
 50 55 60
Ala Arg Leu Lys Asn Asn Asn Arg Gln Val Cys Ile Asp Pro Lys
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<212> DNA
<213> Mus

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cca tgc cga ttc ttc gaa agc cat gtt gcc aga gcc aac gtc aag 608
cat ctc aaa att ctc aac act cca aac tgt gcc ctt cag att gta 653
gcc cgg ctg aag aac aac aac aga caa gtg tgc att gac ccg aag 698
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<212> PRT
<213> Artificial Sequence
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<223> Ligand peptide

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				20					25					30
Pro	Cys	Arg	Phe	Phe	Glu	Ser	His	Ile	Ala	Arg	Ala	Asn	Val	Lys
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His	Leu	Lys	Ile	Leu	Asn	Thr	Pro	Asn	Cys	Ala	Leu	Gln	Ile	Val
				50					55					60
Ala	Arg	Leu	Lys	Asn	Asn	Asn	Arg	Gln	Val	Cys	Ile	Asp	Pro	Lys
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<220>
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gca cgg ctg aag aac aac aac aga caa gtg tgc att gac cgg aaa 306
tta aag tgg atc caa gag tac ctg gag aaa gct tta aac aag taa 351
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<223> primer

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